

Derek Ni

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EDUCATION

Cornell University

Ithaca, NY

B.S. Computer Science, GPA: 4.13

Expected May 2022

Courses: Intro to Algorithms, Object Oriented Programming and Data Structures, Functional Programming, Intro to Backend Development, Intro to Database Systems, Foundations of AI, Discrete Structures

PERSONAL PROJECTS

Ascii Stream | IvyHacks 2nd Overall | JavaScript, WebRTC

- Video call web app that converts video to ASCII art to save bandwidth
- Uses WebRTC for real time text and audio communication between users

TaskTime | Swift, XCode

- Productivity app to motivate users to complete to-dos and keep healthy habits
- Uses points with a gamified to-do list to increase user productivity

Johnny Jumper | JavaScript, Phaser

- A 2D mobile jump game where the player jumps from platform to platform to reach the sky
- Optimized by creating sub-maps instead of one large map and reducing tile layers

WORK EXPERIENCE

MITRE Corporation

McLean, VA

Software Engineer Intern

May 2020 – August 2020

- Automated testing of synthetic audio ML models using shell scripts, Amazon Transcribe and SCLite
- Improved ML models by creating spreadsheets from data evaluations to cherry-pick training data
- Generated synthetic images using WGANs, LSGANs, and DCGANs training on the CIFAR-10 dataset

Cornell University

Ithaca, NY

CS 2110 Consultant

August 2020 – Present

- Hosted weekly office hours to help students with object-oriented programming concepts
- Graded and gave feedback on coding assignments, quizzes, and exams

ORGANIZATIONS

Cornell ACSU

Ithaca, NY

Academic Officer

October 2019 – Present

- Organized academic events for students interested in computer science
- Led collaboration with Cornell AppDev to increase outreach with an iOS workshop

Southgate GIVE

Reston, VA

Center Manager

September 2017 – June 2019

- Managed volunteer tutoring program targeted towards elementary schoolers
- Created roadmaps for students to improve their math and reading by 1-2 grade levels over school year
- Advertised through social media, emails and partnerships with local elementary schools

SKILLS & INTERESTS

Skills: Python, Java, C#, Swift, JavaScript, OCaml, HTML and SQL

Interests: Snowboarding, meditating, tennis, podcasts and running